

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,627	08/22/2003	Jian Xu	758.1254USC1	8466
7:	590 05/05/2004		EXAM	INER
Attn: Julie R. Daulton			GREENE, JASON M	
MERCHANT & GOULD P.C.				
P.O. Box 2903			ART UNIT	PAPER NUMBER
Minneapolis, MN 55402-0903			1724	

DATE MAILED: 05/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

1)  Responsive to communication(s) filed on  2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 19-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) 24-35 is/are allowed. 6)  Claim(s) 19-22 is/are rejected. 7)  Claim(s) 23 is/are objected to. 8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on 22 August 2003 is/are: a)  accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			$\mathcal{A}(\cdot)$ .				
## Disposition of Claims  ## Disposition of		Application No.	Applicant(s)				
Jason M. Greene   1724	Office Action Community	10/646,627	XU ET AL.				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Estawtion of time may be a validate under the provisions of 3 CPR 1.136(a). In no event, however, may a righy be timely fled  Estawtion of time may be a validate under the provisions of 3 CPR 1.136(a). In no event, however, may a righy be timely fled  Estawtion of time may be a validate under the provisions of 3 CPR 1.136(a). In no event, however, may a righy be timely fled  If the period for righty specified above is less than thiny (30) days, a very within he statutory minimum of thiny (30) days, will be considered timely.  If the period for righty specified above, the maintima statutory period will apply and will eight SM (MDNTMs from heraling date of this communication.  Failure is rightly within the sation experiment of the communication, even if timely flex, may reduce any search date of this communication, even if timely flex, may reduce any search date of this communication, even if timely flex, may reduce any search date of this communication, even if timely flex, may reduce any search date of this communication, even if timely flex, may reduce any search date of the communication, even if timely flex, may reduce any search date of the communication to the communication.  Status  1	Oπice Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 3° CFR 1.35(a). In no event, however, may a reply be timely filed Expensions of time may be available under the provisions of 3° CFR 1.35(b). In no event, however, may a reply be timely filed Expensions of time may be available under the provision of 3° CFR 1.35(b). In no event, however, may a reply be timely filed Expensions of time may be available under the provision of 10° per year year of 10° per year year year year year year year ye							
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CPR 1.13(6). In no event, however, may a reply be timely field after SIX (6) MONTIS from the mailing date of this communication.  It also provides the major of the communication of the communication of the provision of the communication of t		ears on the cover sheet with the c	orrespondence address				
1)  Responsive to communication(s) filed on	THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
2a) This action is FINAL.  2b) This action is non-final.  3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 19-35 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 24-35 is/are allowed.  6) Claim(s) 19-25 is/are rejected.  7) Claim(s) 23 is/are objected to.  8) Claim(s) 23 is/are objected to.  8) Claim(s) 19-25 is/are rejected.  7) The specification is objected to by the Examiner.  10) The drawing(s) filed on 22 August 2003 is/are: a) accepted or b) □ objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 22 August 2003 is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.	Status						
3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4   Claim(s) 19-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5   Claim(s) 24-35 is/are allowed. 6   Claim(s) 19-25 is/are rejected. 7   Claim(s) 23 is/are objected to. 8   Claim(s) are subject to restriction and/or election requirement.  Application Papers  9   The specification is objected to by the Examiner. 10   The drawing(s) filed on 22 August 2003 is/are: a)   accepted or b)   objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.51(d). 11   The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12   Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)   All   b)   Some * c)   None of: 1.   Certified copies of the priority documents have been received. 2.   Certified copies of the priority documents have been received in Application No 3.   Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  Attachment(s) 1   Notice of Prefsperson's Patent Drawing Review (PTO-948)   Notice of Informal Patent Application (PTO-152)	1) Responsive to communication(s) filed on	_•					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 19-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) 24-35 is/are allowed. 6)  Claim(s) 19-22 is/are rejected.  7)  Claim(s) 23 is/are objected to. 8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filled on 22 August 2003 is/are: a)  accepted or b)  objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1)  Notice of References Cited (PTO-892)    Notice of Torfstperson's Patent Drawing Review (PTO-948)   Notice of Torfstperson's Patent Drawing Review (PTO-158)	2a) This action is <b>FINAL</b> . 2b) ⊠ This	action is non-final.					
Application of Claims  4) □ Claim(s) 19-35 is/are pending in the application. 4a) Of the above claim(s)	3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
4) ☐ Claim(s) 19-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) 24-35 is/are allowed. 6) ☐ Claim(s) 19-22 is/are rejected. 7) ☐ Claim(s) 23 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on 22 August 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No,  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Nomico Disclasure Statement(s) (PTO-1449 or PTO/SB/08)  5) ☐ Notice of Internal Patent Application (PTO-152)	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) 24-35 is/are allowed.  6) □ Claim(s) 19-22 is/are rejected.  7) □ Claim(s) 23 is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on 22 August 2003 is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☑ Notice of Otraftsperson's Patent Drawing Review (PTO-948)  3) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) □ Notice of Informal Patent Application (PTO-152)	Disposition of Claims						
9) ☐ The specification is objected to by the Examiner.  10) ☑ The drawing(s) filed on 22 August 2003 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  10 ☑ Notice of References Cited (PTO-892)  21 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  23 ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	<ul> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5) ☐ Claim(s) <u>24-35</u> is/are allowed.</li> <li>6) ☐ Claim(s) <u>19-22</u> is/are rejected.</li> <li>7) ☐ Claim(s) <u>23</u> is/are objected to.</li> </ul>	vn from consideration.					
10) ☐ The drawing(s) filed on 22 August 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  20 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Interview Summary (PTO-413)  Paper No(s)/Mail Date  5) ☐ Notice of Informal Patent Application (PTO-152)	Application Papers						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  10 ☐ Notice of Informal Patent Application (PTO-152)	10) ☐ The drawing(s) filed on 22 August 2003 is/are:  Applicant may not request that any objection to the correction  Replacement drawing sheet(s) including the correction	a)⊠ accepted or b)⊡ objected t drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  Attachment(s)  Attachment(s)  Attachment(s)  Attachment(s)  Attachment(s)  Attachment(s)  Attachment(s)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Notice of Informal Patent Application (PTO-152)	Priority under 35 U.S.C. § 119						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	<ul> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> </ul>	have been received. have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	Attachment(e)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)		4) T Interview Summary	(PTO-413)				
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	te				

Application/Control Number: 10/646,627 Page 2

Art Unit: 1724

#### **DETAILED ACTION**

### Claims

1. With regard to claim 19, the Examiner suggests Applicants replace the word "on" at the end of line 11 with the word "of" to improve the readability of the claim language.

## **Double Patenting**

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 19-21 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 6,610,126 B2.

Claim 1 of U.S. Patent No. 6,610,126 B2 claims the same method of instant claim 19 except that claim 1 of the '126 patent additionally claims the media

Application/Control Number: 10/646,627 Page 3

Art Unit: 1724

construction comprising a corrugated sheet secured to a flat sheet rolled into a coiled construction. Therefore, eventhough claim 1 of the '126 patent and instant claim 19 are not identical, claim 1 of the '126 patent anticipates instant claim 19 since the media of claim 1 of the '126 patent reads on the instantly claimed media of claim 19.

Claims 2 and 3 of the '126 patent recite the same additional limitations as instant claims 20 and 21.

4. Claim 22 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,610,126 B2 in view of Tokar et al. '364.

As noted above, claim 1 of the '126 patent claims the media construction comprising a corrugated sheet secured to a flat sheet rolled into a coiled construction.

Claim 1 of the '126 patent does not claim the coiled construction being rolled around a core.

Tokar et al. '364 teaches a similar filter wherein a coiled, fluted filter is wound around a core construction (66) in Fig. 8.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the core construction of Tokar et al. '364 into the method of claim 1 of the '126 patent to provide additional radial support for the coiled filter element.

Allowable Subject Matter

Application/Control Number: 10/646,627 Page 4

Art Unit: 1724

5. Claims 24-35 are allowed.

6. Claim 23 is objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject

matter:

With regard to claim 23, the prior art made of record does not teach or fairly

suggest the method of claim 22 wherein the step of providing a filter element includes

providing a filter element including a frame and the radially directed seal member, the

frame securing the radially directed seal member to the media construction, the frame

having a skirt and an axial extension, the skirt circumscribing and securing the frame to

the media construction, the axial extension projecting axially from the second end of the

media construction, the axial extension having an annular portion, the annular portion of

the axial extension supporting the radially directed seal member, the core construction

having a first end, including a pair of deflectable flanges, the core construction being

releasably secured to the frame.

Art Unit: 1724

With regard to claims 24-32, Tokar et al. '364 discloses a filter arrangement (60) comprising a media construction (62) comprising a plurality of flutes (24), a first end, an opposite second end, said plurality of flutes comprising inlet flutes and outlet flutes, said inlet flutes being open at a portion adjacent to said first end and closed at a portion adjacent to said second end, and said outlet flutes being closed at a portion adjacent to said first end and open at a portion adjacent to said second end, a frame (58) secured to said media construction, said frame having an axial extension, said axial extension projecting axially from said second end of said media construction, a first seal member (59) secured to said axial extension in Fig. 8 and col. 5, lines 39-57.

The prior art made of record does not teach or fairly suggest the filter arrangement of claim 24 wherein a second seal member is secured adjacent to the first end of the media construction.

With regard to claims 33-35, Tokar et al. '364 discloses an air cleaner comprising a housing including a body member (54) and a cover (not numbered), said body member defining an interior, a filter element (60) operatively installed within said body member interior, said filter element including a media construction (62) comprising a plurality of flutes (24), a first end, an opposite second end, said plurality of flutes comprising inlet flutes and outlet flutes, said inlet flutes being open at a portion adjacent to said first end and closed at a portion adjacent to said second end, and said outlet flutes being closed at a portion adjacent to said first end and open at a portion adjacent to said second end, a frame (58) secured to said media construction, said frame having

Art Unit: 1724

an axial extension, said axial extension projecting axially from said second end of said media construction, a first seal member (59) secured to said axial extension, said first seal member oriented in a radial direction in Figs. 8 and 11 and col. 5, lines 39-57.

The prior art made of record does not teach or fairly suggest the air cleaner of claim 33 wherein the first seal member forms a radial seal with the housing member, and further including a second seal member secured to the filter element, said second seal member being squeezed between said cover and said body member to form an axial seal therebetween.

#### Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M. Greene whose telephone number is (571) 272-1157. The examiner can normally be reached on Monday - Friday (9:00 AM to 5:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on (571) 272-1156. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jason M. Greene

Examiner

Art Unit 1724

jmg

May 2, 2004

DUANE SMITH

(-3-07